

### Features

- Very low forward voltage

### Ordering Information

- Shipping Qty:3000/7inch Tape& Reel

### Mechanical Data

- Case: DFN1608-2
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Tin-plated; solderability per MIL-STD-202, Method 208



DFN1608-2L

PIN	DESCRIPTION
1	Cathode
2	Anode



Marking:T2A4

### Absolute Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
DC Reverse Voltage	V <sub>R</sub>	40	V
Maximum Average Forward Output Current	I <sub>F(AV)</sub>	2	A
Peak Forward Surge Current (8.3ms single half sine-wave)	I <sub>FSM</sub>	30	A

### Thermal Characteristics

Parameter	Symbol	Value	Unit
Thermal Resistance Junction to Ambient (Typ)	P <sub>d</sub>	80	°C/W
Operating Junction Temperature	T <sub>J</sub>	-55 ~ +125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ +150	°C

**Electrical Characteristics** (T =25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu A$	40	-	-	V
Forward Voltage	$V_F$	$I_F = 1A$	-	-	0.47	V
		$I_F = 2A$	-	-	0.55	V
Maximum Peak Reverse Current	$I_R$	$V_R = 40V$	-	-	15	$\mu A$

**Typical Electrical Characteristic Curves**

FIG1:  $I_o$ -TL Curve

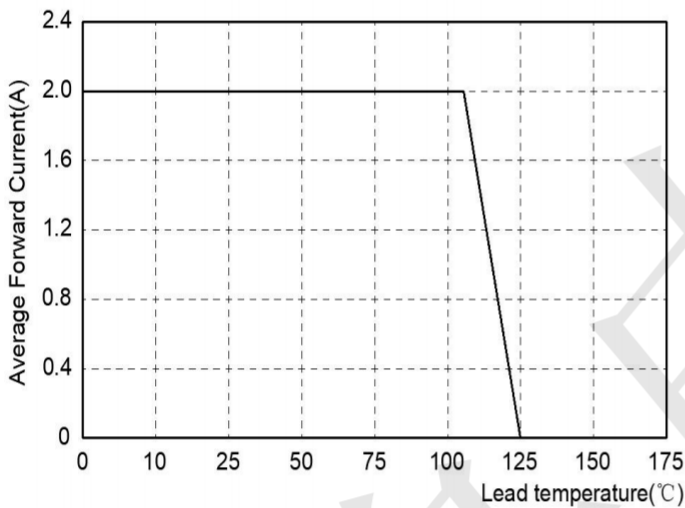


FIG2: Surge Forward Current Capability

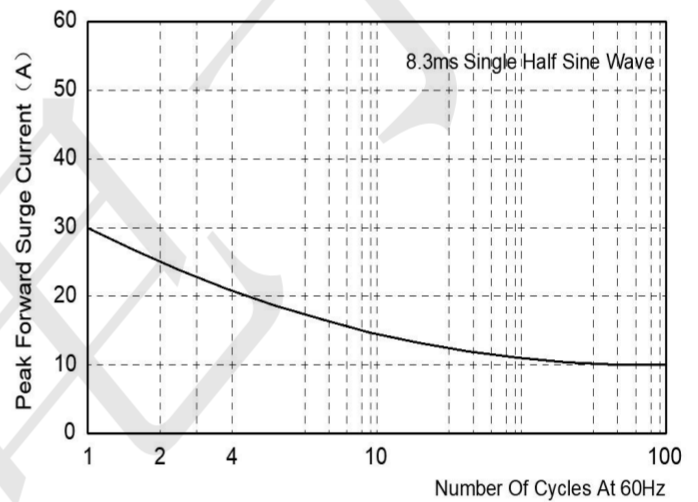


FIG3: Typical Reverse Characteristics

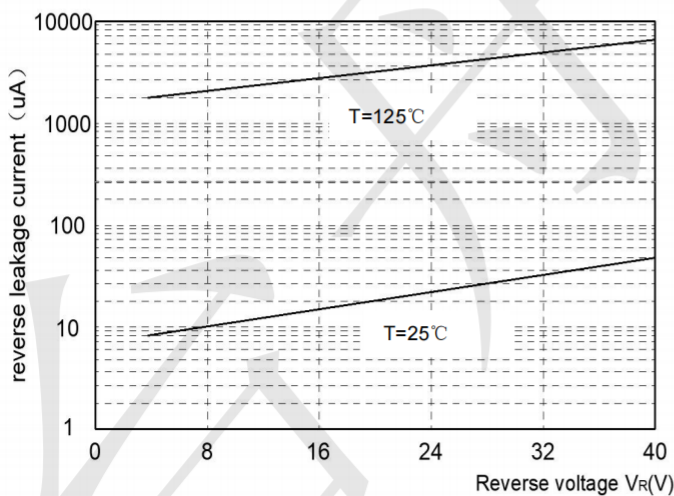
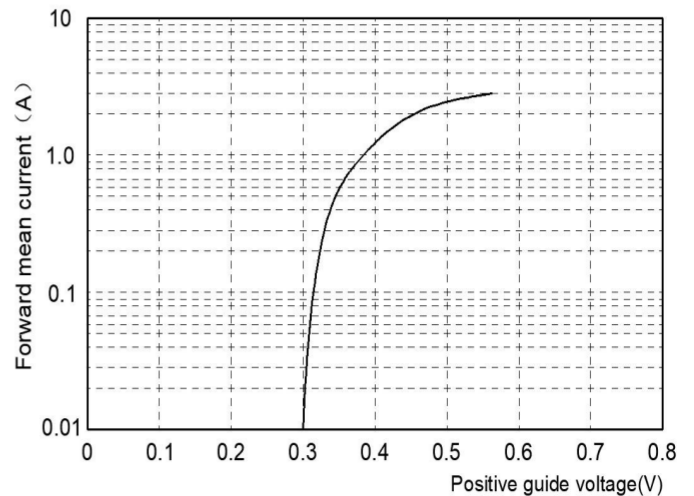
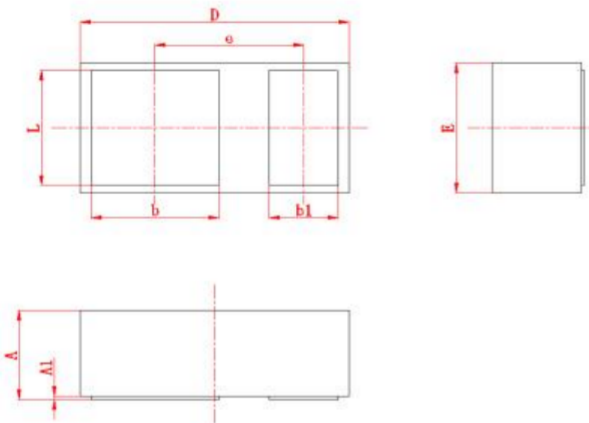


FIG4: Typical Forward Characteristics

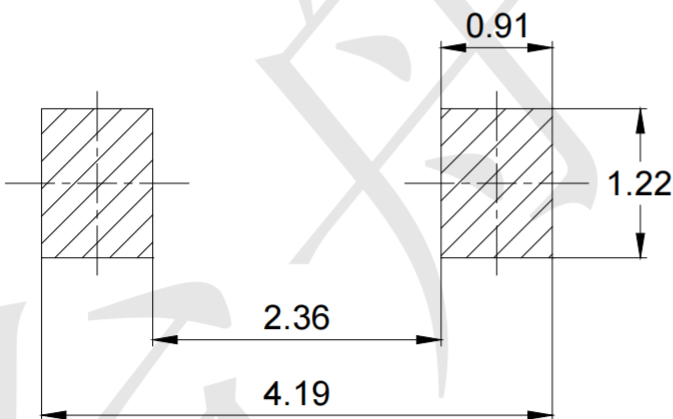


**Outline Drawing - DFN1608-2**



Symbol	Dimension in Millimeters	
	Min	Max
A	0.50	0.6
A	0.50	0.6
A1	0	0.05
D	1.5	1.7
E	0.75	0.85
e	(0.89)	
b	0.71	0.81
b1	0.36	0.46
L	0.66	0.76

**Mounting Pad Layout-DFN1608-2**



Symbol	Dimension in Millimeters
	Typ
X	0.95
Y	0.85
Z	0.6
P	0.9

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